SEMESTER END EXAMINATION, APRIL-MAY, 2026

Year:-2nd

Course Name:- D. Pharm **Paper Code:- ER20-21T**

Paper Name:- Pharmacology (Theory)

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-80**

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **01** marks. All questions are compulsory.
- Section B- Answer any **10 out of 11** given questions. Each question carries **03 marks**.
- Section C- Answer any **6 out of 7** given questions. Each question carries **05 marks**.

Section – A (खण्ड–अ)

Objective Questions (वस्तुनिष्ठ प्रश्न)

1×10=10

1. All questions are compulsory.

a) Multiple choice Questions.

i. **Atropine is mainly used as:**
   - A. Antibiotic
   - B. Anticholinergic
   - C. Antacid
   - D. Antipyretic

ii. **Which drug is used as a sedative and hypnotic?**
   - A. Diazepam
   - B. Amoxicillin
   - C. Paracetamol
   - D. Atropine

iii. **Which drug is used to reduce gastric acid secretion?**
   - A. Omeprazole
   - B. Amoxicillin
   - C. Ibuprofen
   - D. Metformin

iv. **Which drug is used for diabetes mellitus?**
   - A. Metformin
   - B. Aspirin
   - C. Diazepam
   - D. Chloramphenicol

v. **Morphine is mainly used as:**
   - A. Antibiotic
   - B. Analgesic
   - C. Antacid
   - D. Antipyretic

vi. **The drug used to treat hypertension is:**
   - A. Atenolol
   - B. Paracetamol
   - C. Amoxicillin
   - D. Chlorpheniramine

vii. **The branch of pharmacology that studies the mechanism of action of drugs is called:**
   - A. Pharmacokinetics
   - B. Pharmacodynamics
   - C. Toxicology
   - D. Chemotherapy

viii. **Which of the following drugs is used as an antacid?**

A. Amoxicillin
B. Magnesium hydroxide
C. Paracetamol
D. Metformin

ix. **Which route of drug administration provides the fastest onset of action?**

A. Oral
B. Intravenous
C. Subcutaneous
D. Intramuscular

x. **The term bioavailability refers to:**

A. Drug toxicity
B. Rate and extent of drug absorption
C. Drug metabolism
D. Drug excretion

b) True or False **1×5=5**

i. The study of the effects of drugs on the body is called Pharmacodynamics. .True/False
ii. Insulin can be taken orally. True/False
iii. Pharmacology is the study of drugs. True/False
iv. The anticholinergic act as acyltransferase. True/False
v. Penicillin is commonly used to treat bacterial infections.True/False

c) Fill In The Blanks. **1×5=5**

i. Antibiotics are effective against ..... infections.
ii. Insulin can be taken .....
iii. Pharmacology is the study of.....
iv. The study of the effects of drugs on the body is called .....
v. Salbutamol is commonly used to treat .....

Section – B (खण्ड–ब)
Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any Ten of the following questions. **3×10=30**

1) Classify anti-anxiety (anxiolytic) drugs and explain the mechanism of action and therapeutic uses of benzodiazepines.

2) Describe the pharmacological actions, uses and adverse effects of drugs used in the management of angina.

3) Classify the drugs used in the treatment of Congestive Heart Failure (CHF).

4) Classify miotic drugs and explain the mechanism of action and therapeutic uses of pilocarpine in glaucoma.

5) Classify opioid analgesics and explain the mechanism of action and therapeutic uses of morphine.

6) Classify anticonvulsant (antiepileptic) drugs and explain the mechanism of action and therapeutic uses of phenytoin.

7) Classify antiemetic drugs and explain the mechanism of action and therapeutic uses of ondansetron.

8) Define bioavailability. Explain the factors affecting the bioavailability of drugs.

9) Classify drugs used in cough and explain the mechanism of action, therapeutic uses, and adverse effects of mucolytic agents.

10) Write a short note on thrombolytic agents, including their mechanism of action, examples, therapeutic uses, and adverse effects.

11) Classify diuretic drugs and explain the mechanism of action and therapeutic uses

Section – C
Descriptive Questions

3. Answer any Six of the following question. **6×5=30**

1) Write a short note on adrenergic agonists including their pharmacological actions, therapeutic uses, and adverse effects.
2) Classify NSAIDs and explain the mechanism of action, therapeutic uses, and adverse effects.
3) Write a short note on barbiturates including their pharmacological actions, therapeutic uses, and adverse effects.
4) Classify antiarrhythmic drugs and explain the mechanism of action and therapeutic uses of Class I antiarrhythmic agents.
5) Classify penicillins and explain their mechanism of action, therapeutic uses, and adverse effects.
6) Write a short note on cephalosporins including their classification, mechanism of action, and therapeutic uses.
7) Define drug excretion. Explain the different routes of drug excretion with suitable examples.

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